

Special Issue

Pre and Postharvest Physiology and Biochemistry of Fresh Fruits and Vegetables

Message from the Guest Editors

Fruits and vegetables play an important role in human nutrition and health, particularly as sources of essential biomolecules such as vitamin C, thiamine, niacin, pyridoxine, folic acid, fatty acids, minerals and dietary fibre. Some components of fruits and vegetables (phytochemicals) are strong antioxidants and modify metabolic activation and the detoxification/disposition of carcinogens, and may even influence processes that could change the course of a tumor cell, but they are highly perishable as they remain metabolically active until they are consumed. It is of great importance to highlight the most significant changes occurring during maturity-ripening as pre-harvest factors affecting fruit and vegetable quality at harvest time, such as bioactive compounds and antioxidant activity. The pre-harvest factors influencing post-harvest quality are cultural practices, mineral nutrition, genetic factors and climatic factors. Post-harvest factors influencing quality of fruits are genotype, maturity stage, harvest (method and time), and the applied technologies that affect the conditions during postharvest chain (sorting and grading, packaging, storage and transportation).

Guest Editors

Dr. Georgia Ouzounidou

Institute of Technology of Agricultural Products, Hellenic Agricultural Organization-DIMITRA (ELGO-DIMITRA), 111 45 Athens, Greece

Dr. Miltiadis V. Christopoulos

Institute of Food Technology, Hellenic Agricultural Organization-Demeter (ELGO-Dimitra), 1 S. Venizelou Str., 14123 Lycovrissi, Greece

Deadline for manuscript submissions

closed (30 June 2023)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/97577

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)





Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)



About the Journal

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB
R3T 2N2, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)